

The Interpolation of the Frequency Characteristic of Regulated Objects Within the Range of Low Frequencies 507/161-3-22,27

for the purpose of checking the results obtained, the scheme of which is given (Fig 5) and discussed. The experimentally obtained frequency characteristics (Fig 7) and the amplitude-phase characteristic of this model (Fig 8) are compared with the calculated characteristics, and only a small error was found to have occurred. In conclusion, the characteristic of a real object is discussed, and the calculated and experimentally determined characteristics are shown in form of a diagram (Fig 9). There are 9 figures and 5 Soviet references.

This article was recommended for publication by the Kafedra teplovogo kontrolya i avtomatiki Moskovskogo energeticheskogo instituta (Chair for Temperature Control and Automation at the Moscow Institute of Power Engineering)

ASSOCIATION: Kafedra teplovogo kontrolya i avtomatiki Moskovskogo energeticheskogo instituta (Chair for Temperature Control and Automation at the Moscow Institute of Power Engineering)
SUBMITTED: May 26, 1958

Card 2/2

9(9)

AUTHOR:

Fletnev, G. P., Post-graduate Student (Moscow)

ZU7, 164-31-3-22, 27

TITLE:

The Interpolation of the Frequency Characteristic of Regulated Objects Within the Range of Low Frequencies (Interpolyatsiya chastotnykh kharakteristik reguliruyemykh ob'yektov v oblasti infranizkikh chastot)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Elektromekhanika i avtomatika, 1958, Nr 3, pp 205 - 212 (USSR)

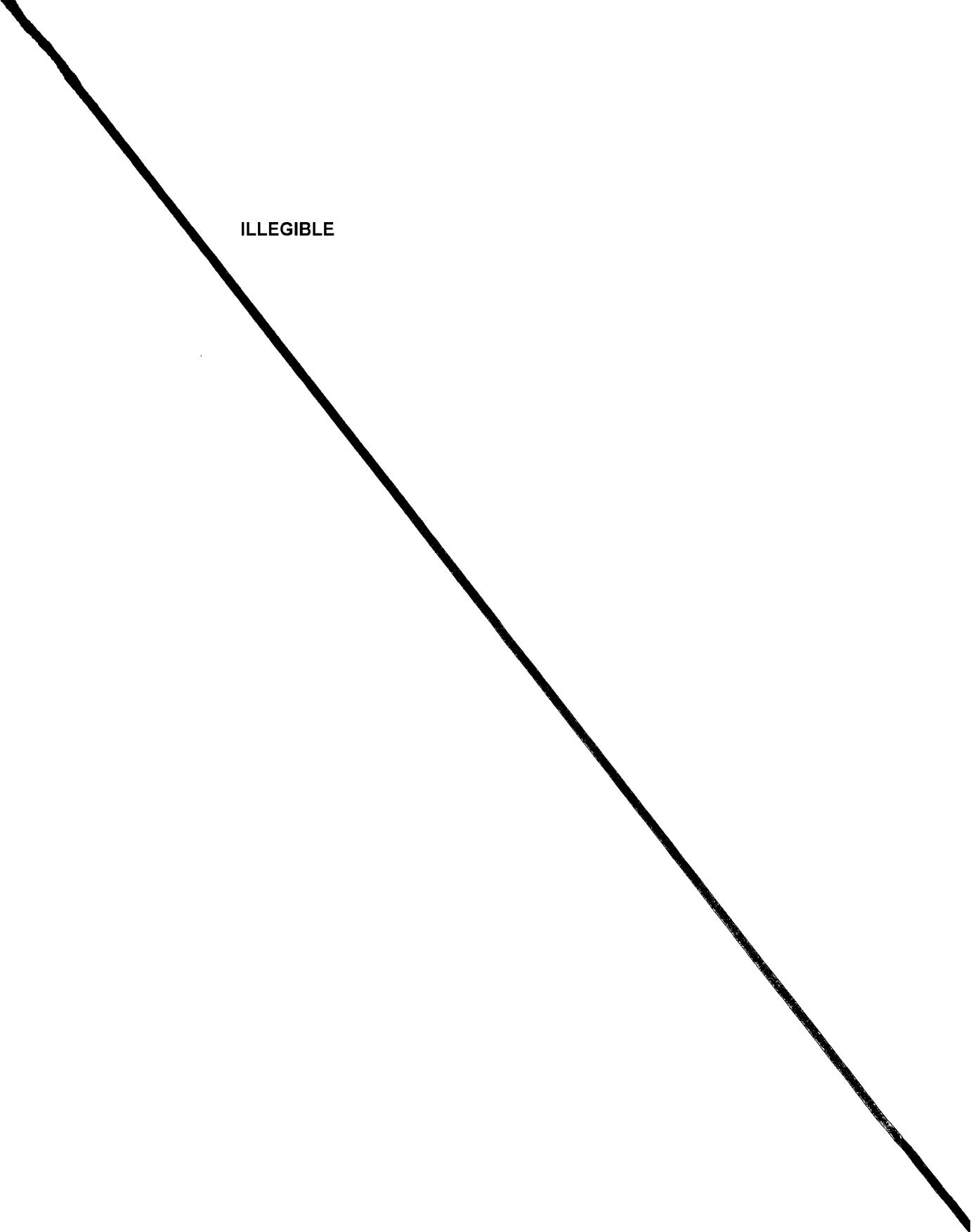
ABSTRACT:

In the introduction, the difficulties arising when plotting the frequency characteristic at low frequencies is described (structural scheme figure 1) and a formula of general applicability (1) is given, which is transformed for real systems in the form (3). By means of formula (2) the transmission function for low frequencies, in which delay is taken into account, is given (Fig 1). A diagram (Fig 3) shows a typical frequency characteristic, on the basis of which the calculation of formula (3) for various frequency ranges is dealt with in detail. For the special case of a linear phase-frequency characteristic the result obtained is then modified and for the purpose of obtaining the coefficients a nomograph is given (Fig 4). An electronic model was developed

Card 1/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200002-6

ILLEGIBLE



PLETNEV, G.P., kand.tekhn.nauk

Determination of the frequency characteristics of thermal systems.
Izv. vuz. stekhn. zav., energetika, no. 2-6, 1963. (MIRA 16-3)

1. Moskovskiy ordena Lenina energeticheskiy institut. Predstavlena
kafedroy teplovogo kontrolya i avtomatiki.
(Automatic control)

PLETNEV, G.P., inzh.

Semigraphical method for constructing the high-frequency
branch of amplitude-phase characteristics of thermal power
installations. Izv.vys.ucheb.zav.; energ. 3 no.6:127-129
(MIRA 13:6)
Je '60.

1. Moskovskiy ordena Lenina energeticheskiy institut. Pred-
stavlena kafedroy teplovogo kontrolya i avtomatiki.
(Steam power plants--Electromechanical analogies)

NOSKOV, A.I., inzh.; PLETNEV, G.P., kand.tekhn.nauk; SKERBUSHKEVICH, B.S., inzh.

Study of a block consisting of a TP-80 boiler and TP-50 turbine in
sharply varying mode of operation. Izv. vys. ucheb. zash.; energ. 7
no.8:53-57 Ag '64. (MIRA 17:12)

1. Moskovskiy ordena Lenina energeticheskiy institut.

PLETNEV, G.P., inzh.

Use of the frequency characteristics of a system for determining
the transpor'tational time delay. Izv. vys. uchob. zav.; energet.
5 no.2:20-23 F '62. (MIRA 15:3)

1. Moskovskiy ordena Lenina energeticheskiy institut. Predstavlenia
kafedroy teplovogo kontrolya i avtomatiki.
(Automatic control)

S/143/62/000/002/003/005
D238/D301

AUTHOR: Pietnev, G. P., Engineer

TITLE: Determining the transmission lag from the frequency characteristics of the system

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Energetika,
no. 2, 1962, 20 - 23

TEXT: In automatic control-system analysis and in calculating the optimum controller settings the transmission lag is usually determined experimentally, employing the transient characteristic with an instantaneous step shift. This introduces difficulties under industrial conditions where fortuitous perturbations occur. A second method is described, involving indirect determination from the experimental frequency characteristics of the object or system. The phase-amplitude characteristic of an object possessing a lag is represented in the familiar form

$$W_0(i\omega) = M(\omega)e^{-i(\varphi_0^e + \omega\tau_0)} \quad (1)$$

Card 1/2

PLETNEV, Erik Panteleymonovich; SICHETININ, V.D., red.; YERKHOVA,
Ye.A., tekhn., red.

[International migration of the labor force in the capitalist
system of world economy] Mezhdunarodnaia migratsia rabochei sily
v kapitalisticheskoi sisteme mirovogo khoziaistva. Moskva, Izd-
vo IMO, 1962. 375 p. (MIRA 15:7)

(Emigration and immigration)
(Labor and laboring classes)

ZORIN, V.S., red.; PLETNEV, E.P., red.; YUDANOV, Yu.I., red.;
YEROKHOVA, Ye.A., tekhn. red.

["Common Market" is a tool of monopolies] "Obshchii rynok" -
orudie monopolii. Pod red. V.S.Zorina i E.P.Pletneva. Mo-
skva, Izd-vo IMO, 1963. 387 s. (MIRA 16:6)

1. Moscow. Institut mezhdunarodnykh otnosheniy.
(European Economic Community)
(Europe, Western--Trusts, Industrial)

PLETNEV, E.

In the ranks of fighters for peace and the rights of workers.
Vop.ekon. no.6:154-159 Je '56. (MLRA 9:8)
(France--Communism--Periodicals) (France--Economic conditions)

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CP
4

Chromium plating cast iron. D. V. Pletnev. *Khim. i. Prom.* Borba, Nef 7, No. 2, 45-7 (1941); *Chem. Zentr.* 1943, I, 1231. The work is degreased in gasoline and then mechanically burnished with fine chalk. The electrolyte used: CrO₃, 150 g./l., H₂SO₄, 1.5 g./l., c. d. 25 amp. sq. dm., bath temp. 08°. Time 2.5 hrs. for a Cr layer of 0.025 (0.05 mm). Adhesion was good.
M. Hartenstein

ASB-SEA METALLURGICAL LITERATURE CLASSIFICATION

REF ID: A64700

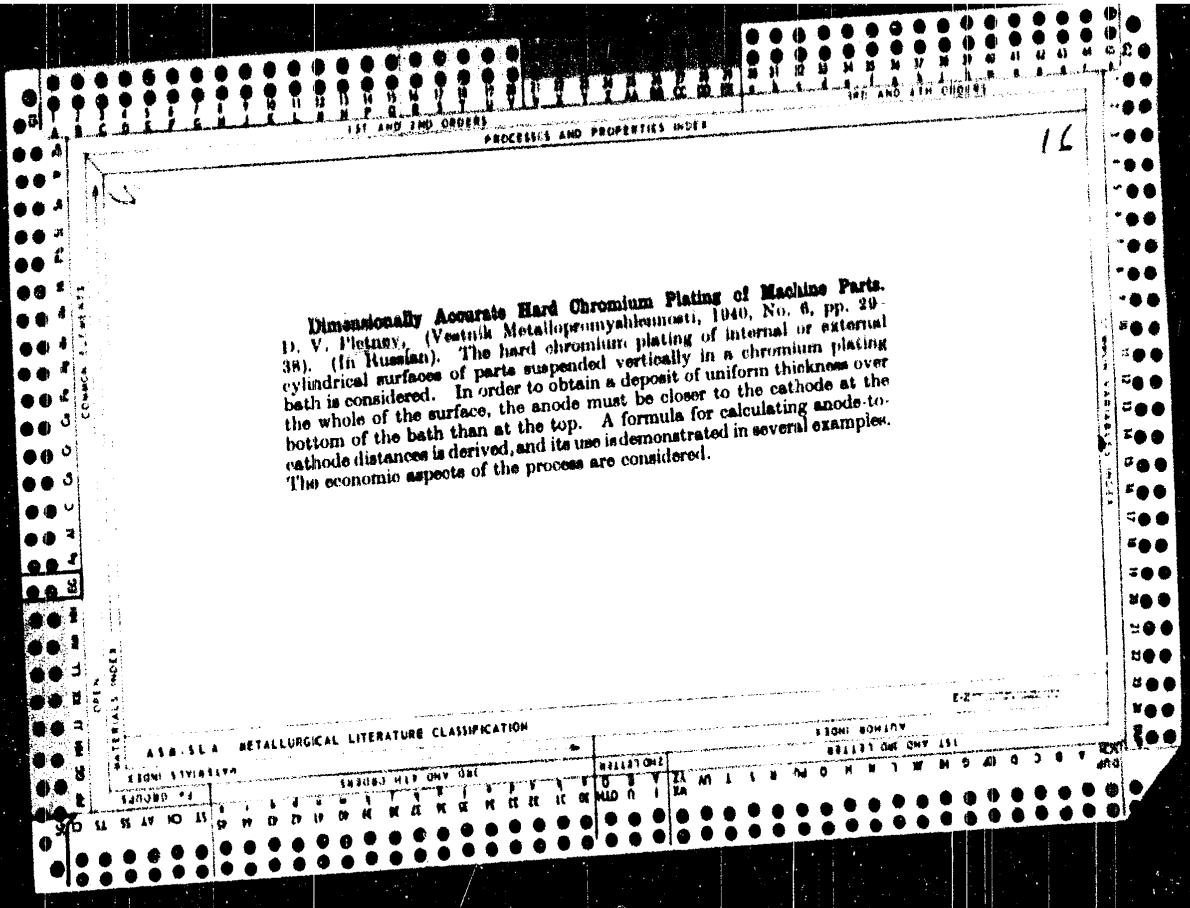
APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200002-6

4 Chromium plating of engine cylinders - G. V. Pletnev
Ariapromykhrom 1940, No. 8, p. 11. The Cr-plated cylinders were used in tractor engines without any preliminary treatment. Mat deposits showed good adhesion to the steel. The life of the coatings was not investigated.
W. Z. Kamchikov

ASH-SEA METALLURGICAL LITERATURE CLASSIFICATION

EXTRACTS	STANDARDS	INSTRUCTIONAL	ILLUSTRATIONS	TECHNIQUES	TESTS	EDUCATIONAL	GENERAL
0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0

Dimensionally Accurate Hard Chromium Plating of Machine Parts.
D. V. Plotnev, (Vestnik Metallopereryadchnosti, 1940, No. 6, pp. 29-38). (In Russian). The hard chromium plating of internal or external cylindrical surfaces of parts suspended vertically in a chromium plating bath is considered. In order to obtain a deposit of uniform thickness over the whole of the surface, the anode must be closer to the cathode at the bottom of the bath than at the top. A formula for calculating anode-to-cathode distances is derived, and its use is demonstrated in several examples. The economic aspects of the process are considered.



CA

4
Replacing grinding of porous chromium by electrolytic
finishing. D.A. Kleines and V.N. Brusentsov. *Voprosy
Metalloobrabotki*. 1951, No. 3, 15. Edulous grinding of
nickel plated valves was successfully replaced by anodic
treatment. Following Cr plating the valves were treated
anodically for 11 min in an electrolyte contg. $\text{CrO}_3 \cdot 7\text{H}_2\text{O}$
and H_2SO_4 (63 g/l) at 1 amp/l of anode. To remove the oxide film, at the beginning of anodic
treatment, pulses of current 2-3 times greater than the
normal current of 2-3 min duration each, were applied.
To carry out this process successfully the anodic treatment
should follow immediately chrome plating without changing
the position of the anode and the position of the rings.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200002-6

Petrov, D. V. Chromium Plating in the Manufacture of Wear-Resistant
Machine Parts. [In Russian.] Pp. 120. 1940. Moscow and Lenin-
grad : Metallurgizdat. (5.50 Rbl.)

PIETLV, D.V., Eng., BRUSHTOVA, V.I., Ad.

Chromium plating:

Accelerated porous chromium plating. Inst. no. 32, no. 2, 1/2.

SCAFILE LAST IN ASSISTANT'S FILE, BUREAU OF INVESTIGATION, DEPT. OF JUSTICE.

PLASTIKOV, S.V.

Obnovy tekhnologii iznosa i zashchity
mirovaniia (Principles of the technology of wear-
resistant chrome-plating). Moscow, Naukiz, 1951. 114 p.

SO: Monthly List of Russian Accesions, Vol. 1, no. 1, August 1951.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200002-6

PLATEV, D. V. and DIGDENKOVA, V. I.

"Rapid Porous Carbide Plating," Vest. Nauk., 12, No.2, p.37-40, 1972

Abstract - A-44434, 12 Aug 55

PLETNEV, D.V.

USSR/Miscellaneous - Book review

Card 1/1 Pub. 128 - 23/25

Authors : Garkunov, D. N.

Title : Book review

Periodical : Vest. mash. 1, 89-93, Jan 1955

Abstract : A review is presented of D. V. Pletnev, and V. N. Brusentsov's book, "Technological Principles of Resistant-to-Wear Chrome Plating", published by "Mashgiz" in 1953. The book describes the characteristics of electrolytic plating and theory and methods of resistant-to-wear chrome plating of machine components and tools. Table.

Institution :

Submitted :

PLETNEV, D.V., inzhener.

Electropolishing in oxalic acid electrolytes. Vest.mash.35
no.11:58 N '55. (MLRA 9:2)
(Polishing, Electrolytic)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200002-6

PLETNEV, D.V., inzhener.

Reinforcing machine parts by means of wear-resisting and antifriction plating techniques. Vest.mash.36 no.7:59-62 J1 '56. (MLRA 9:9)
(Plating)

PLETNEV, D. V.

Cd ✓ Electrolytic polishing in oxalic acid electrolytes. / D. V.
Pletnev, *Vesnik Mashinostroyeniya* 35, No. 11, 68 (1955).
The strong tendency of oxalic acid to form stable complex
compds. greatly reduces the diffusion speed of the reaction
products from indentations in anodic surface and speeds it
around projections. Only comparatively small amts. of the
acid produce this effect. C steel can be properly polished
in a soln. of 1-2% oxalic acid, 65% H₃PO₄, and 15% H₂SO₄
used at 30-40 amp./sq. dm. for 10 min. at room temp.
Other conventional solns., to which oxalic acid is added,
serve equally well. J. D. Gut

L 19023-63

ACCESSION NR: AP3006403

hour at 400C. "Engineer O. S. Lapshina took part in the experimental work."
Orig. art. has: 4 figures.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 23Sep63 ENCL: 00

SUB CODE: IE, CH NO REF SOV: 002 OTHER: 000

Card 2/2

L 19023-63 BDS/EWP(k)/EWP(q)/EWT(m) AFFTC/ASD Pf-4 JD
ACCESSION NR: AP3006403 S/0119/63/000/008/0021/0023

AUTHOR: Brusentsova, V. N.; Pletnev, D. V. 61
 60

TITLE: Chemical nickel plating in oxalate solutions

SOURCE: Priborostroyeniye, no. 8, 1963, 21-23

TOPIC TAGS: nickel plating, chemical nickel plating, oxalate

ABSTRACT: Experiments are described with oxalate complexing agents used in acidic and alkaline nickel-plating cells. Effect of the bath temperature and pH on the deposition rate was investigated. The following optimum bath composition is recommended: 50 g/lit nickel sulfate, 150 g/lit ammonium oxalate, 40 g/lit sodium acetate, 72 g/lit sodium hypophosphite, and 60 mlit/lit 25% ammonia. Recommended temperature is 85-87C, pH = 8.2; the resulting rate of nickel deposition is 12 microns/hr. Due to 12-14% phosphorus content in the coating, its hardness is 550-575 kg/mm ; it can be raised to 950 kg/mm by heating one

BRUSENTSOVA, V.N.; PLETNEV, D.V.

Extrahard and bright nickel plating in oxalic acid electrolytes.
Priborostroenie no.2:19-21 F '63. (MIA 16:5)
(Nickel plating)

PLETNEV, D. V.

2156. Rapid Posons Chromium Plating. D. V. Pletnev and
V. N. Brusnitsova. Henry Butcher, Alfred C. Clark Transla-
tion no. 2153, 8 p. (From *Vestnik Metallostroyeniya*, v. 32, no.
2, 1952, p. 37-40.)

Materials, equipment, and methods. Table, micrographs.

M B

PLETNEV D.V.

1091* Electrical Polishing in Oxalic Acid Electrolytes. Elektropolivka v shehavelevokislykh elektrolyzakh. (Russian.)
D. V. Pletnev. Vestnik mashinostroeniya, v. 35, no. 11, Nov. 1963, p. 30.

Use of oxalic acid electrolytes for electro-polishing; comparison
with other types of reagents. Gives formula of composition and
optimal working ratio. 62

PLINNEY, D. V.

Poverchnostno-poristaya platinitsa. Tekhnicheskaya instruktsiya.
(Vestn. Mash., 1951, no. 2, s. pl. 8; no. 3, p. 37-72)

Surface porous chrome plating. Technical instruction.

DLC: 111.74

30: Manufacturing and Mechanical Engineering in the Soviet Union, Library
of Congress, 1953.

sodium or ammonium chloride - 2-2 8/±1

Card 1/2

S/119/63/000/002/007/014

High-hardness lustrous nickel plating in... A004/A127

The optimum operation conditions are as follows: current density - 10-20 amp/dm², pH-value in the range of 7 - 10 (standard 7.8 - 8.2), electrolyte temperature 80 - 85°C (optimum 78 - 82°C), periodical alkalization by an ammonia solution of up to pH 8. The authors present a number of specific features of oxalic acid nickel plating and enumerate the advantages of this method in comparison with ordinary nickel-plating or chromium-plating baths. There are 3 figures.

Card 2/2

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200002-6

Is dieting necessary for sufferers from heart disease?
D. D. Pletnev. *Voprosy Pitaniya* 5, No. 4, 42 (1936).
The value of the Kattel milk diet is discussed.
E. H. Rachmann

ASW-51A METALLURGICAL LITERATURE CLASSIFICATION

PLETNEV, B. V.

95

8/089/62/013/006/019/027
B102/B186

AUTHORS: G. T. and M. R.

TITLE: Nauchnaya konferentsiya Moskovskogo inzhenerno-fizicheskogo
instituta (Scientific Conference of the Moscow Engineering
Physics Institute) 1962

PERIODICAL: Atomnaya energiya, v. 13, no. 6, 1962, 603 - 606

TEXT: The annual conference took place in May 1962 with more than 400
delegates participating. A review is given of these lectures that are
assumed to be of interest for the readers of Atomnaya energiya. They are
following: A. I. Leypunskiy, future of fast reactors; A. A. Vasil'yev,
design of accelerators for superhigh energies; I. Ya. Pomeranchuk,
analyticity, unitarity, and asymptotic behavior of strong interactions at
high energies; A. B. Migdal, phenomenological theory for the many-body
problem; Yu. D. Fivayskiy, deceleration of medium-energy antiprotons in
matter; Yu. M. Kogan, Ya. A. Iosilevskiy, theory of the Mössbauer effect;
M. I. Ryazanov, theory of ionization losses in nonhomogeneous medium;
Yu. B. Ivanov, A. A. Rukhadze, h-f conductivity of subcritical plasma;

Card 1/4

SERGEYEV, V.P.; PLIOTNEV, B.D.

Methodology of the organization of health education in the skin and venereology dispensary. Zdrav.Ros.Feder. 3 no.9:23-26
S '59. (MIRA 12:11)

1. Iz Chuvashskogo respublikanskogo kozhno-venerologicheskogo
dispansera (glavnnyy vrach V.P.Sergeyev).
(CHUVASHIA--PUBLIC HEALTH)

PLETNEV, B.D.; BUTAREVA, T.A.

Modified postepilatory treatment in fungus diseases. Vest. ven. i
derm. 30 no.4:53 Jl-Ag '56.
(MLRA 9:10)

1. Iz Chebaksarskogo respublikanskogo kozhno-venerologicheskogo
dispansera.
(SCALP--DISEASES) (HAIR, REMOVAL OF)

SERGEYEV, V. P.; PLETNEV, B. D.

Diagnostic problems in microsporosis caused by *Microsporum ferrugineum*.
Vest. derm. i ven. 34 no.1:28-29 Ja '60. (MIRA 14:12)

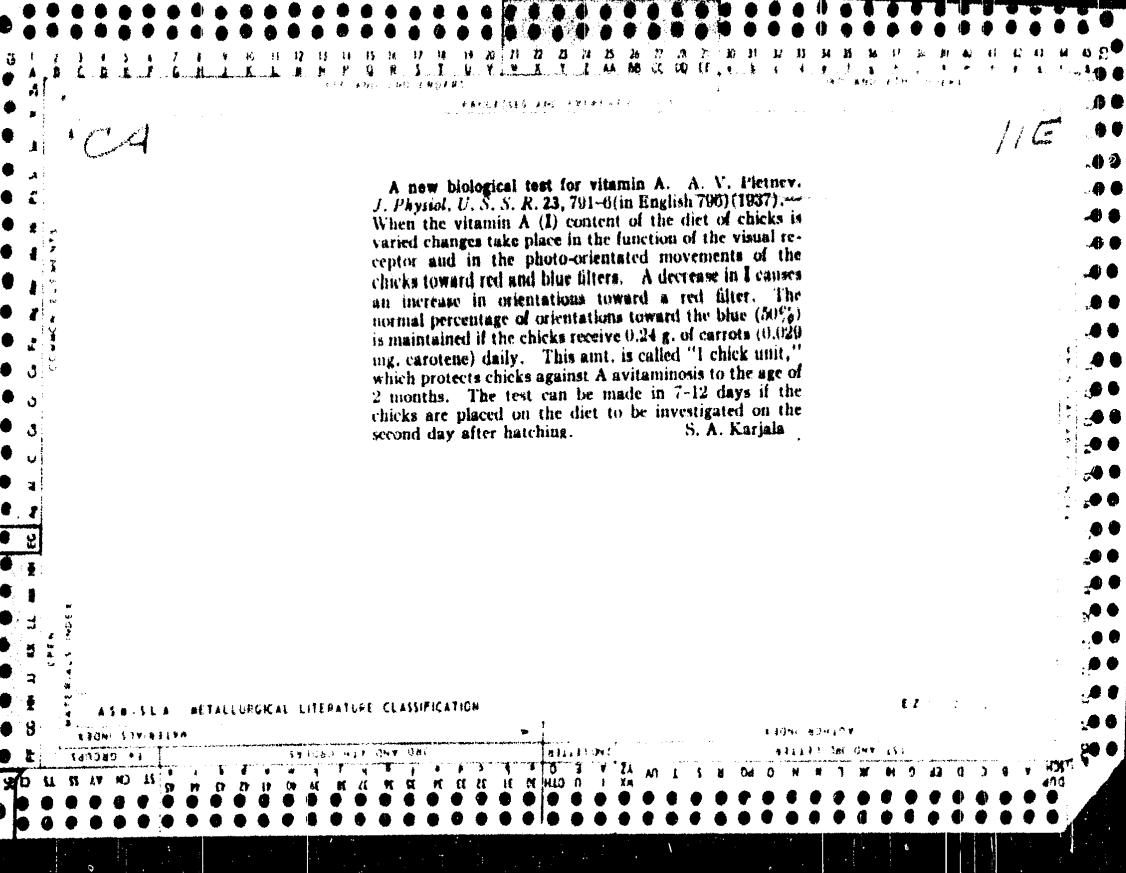
1. Iz Cheboksarskogo respublikanskogo kozhno-venerologicheskogo
dispansera (glavnnyy vrach V. P. Sergeyev).

(MICROSPORUM)

SERGEYEV, V.P.; PLETNEV, B.D.; LAPTENKOV, K.T.

Individual packet for first aid in minor skin injuries. Vrach.delo
no.11:1211 N 59. (MIRA 13:4)

1. Cheboksarskiy respublikanskiy kozhno-venerologicheskiy dispanser
Ministerstva zdravookhraneniya Chuvashkoy ASSR.
(FIRST AID IN ILLNESS AND INJURY)



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200002-6

CA
Estimating vitamin A in grain feeds. A. V. Pletnev,
V. F. Yefimov, N. N. R. B. M. et al., Sov. Engg. Chem., 1937, 29, 1032.
The amt. of vitamin A in "chick units" in oats, barley,
wheat, yellow corn and millet is 0.0, 0.3, 0.0, more than
3.0 and more than 3.0, resp., as deduced by photo-orienta-
tion of chicks to red and blue filters. S. A. Karanda

ASHOKA METALLOGRAPHIC INSTRUMENTS CLASSIFICATION

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200002-6

MOSKALEV, N. A., PLETNEV, A. V.

Forest Nurseries

Planting the green ash before inundation, Les i step' No.3, 1952

Monthly List of Russian Accessions, Library of Congress, July 1952.
Unclassified.

PLETNEV, A. V.

The theory of I.P. Pavlov and the practice of animal husbandry. Moskva, Izdatelstvo
Vsesoiuznogo obshchestva po rasprostraneniiu politicheskikh i
nauchnykh znanii. Seriya 3, no. 16.

1. Pavlov, Ivan Petrovich, 1849-1946.
2. Stock and stock-breeding.

1. PUSHKIN, A. V.; GOVT OF THE USSR, T. T.
2. SOVIET UNION.
3. Reflexes; Radiantia
4. Ruminant reflexes of developing and auto. behav.
5. Ruminant reflexes of developing and auto. behav.
AN ECHI C. No. 3, 1951. Chernigov. Scientific Pre-
systvenny Institute, Chernigov. No. 10 Apr. 1951.
6. Monthly List of Recent Acquisitions, Library of Geology,
Geophysics 1952. UNCLAS/REF.

ELSTNEV, A. V.

1962. Ucheniye I. P. Pavlova i praktika zhivotnovodstva. Kazan', 1961. 278 p. 22 Sm.
1962. Ucheniye I. P. Pavlova i praktika zhivotnovodstva. Kazan', 1961. 278 p. 22 Sm.
(M. Vo Kuk'tuvu tata). (Sov. Ross. letstekhnicheskaya literatura), 1.000 ekz. Sovet.-tataren.
vaz.-r.(sl)-56737) 636+619:612

SO: Knizhnaya, Letonia, Vol. 1, 1965

USSR / Farm Animals. General Problems.

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7265

Author : Plotnov, A. V.

Inst : AS USSR

Title : Conditioned Food Reflexes and Standardized
Feeding of Farm Animals

Orig Pub : V. sb.: Vopr. fiziol. s.-kh. zhivotnykh.
M.-L., AN SSSR, 1957, 40-43

Abstract : Utilizing earlier developed methods of masticatory reflexes, various foods were tested on rams and cows. The magnitude of the masticatory reflex in rams proved to be as follows: 17.7 mastications for sunflower oil cakes; 18.5 for moistened wheat bran; 19 for oat grain; 19.5 for wheat grain; 19.7 for fo-

Card 1/2

USSR / Farm Animals. General Problems.

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7265

Author : Plotnev, A. V.

Inst : AS USSR

Title : Conditioned Food Reflexes and Standardized
Feeding of Farm Animals

Orig Pub : V. sb.: Vopr. fiziol. s.-kh. zhivotnykh.
M.-L., AN SSSR, 1957, 40-43

Abstract : Utilizing earlier developed methods of masticatory reflexes, various foods were tested on rams and cows. The magnitude of the masticatory reflex in rams proved to be as follows: 17.7 mastications for sunflower oil cakes; 18.5 for moistened wheat bran; 19 for oat grain; 19.5 for wheat grain; 19.7 for fo-

Card 1/2

FAYERMAN, G.P., PLETNEY, A.P.

Study of the speeds of the reduction of silver bromide and of silver
salts of the photographic stabilizers. Usp. nauch. fot. vol.5:114-126
'57. (MIRA 10:6)
(Photographic chemistry) (Silver bromide) (Silver salts)

50176
S/187/61/000/010/001/007
D053/D113

The type 6-35 magnetic tape

The type 6 magnetic powder contained in the ferromagnetic suspension is made of α -FeOOH which is processed into γ -ferric oxide. The grains are acicular, 0.2 μ long, and have a length to crossover ratio of 247:1. The performance of the new 6-35 type magnetic tape was investigated and the obtained operating characteristics were compared with those of the "Gevasnor T-200", 2-35, 4-35, C-1 54-4558 (S-1 54-4558) (standard) tapes, and with the tape produced by the "Piral" firm [Abstracter's note: the name is given in Russian transliteration]. The basic electroacoustical characteristics of Soviet magnetic tapes are compiled in Table 2. It can be seen that the type 4-35 and 6-35 tapes have similar electroacoustical characteristics except that the demagnetizability index of the former is 4.5 db less than that of the latter. A comparison of the amplitude characteristics, remanence variations and the coercivity of these tapes showed that (1) the cobalt-free 6-35 magnetic tape possesses a better demagnetizability than cobalt-containing 2-35 and 4-35 tapes, especially with the elapse of time; (2) the optimum value of the high-frequency bias current and the value of the recording current required for obtaining a given magnetization level were reduced in the 6-35 tape; and (3) the basic characteristics of the 6-35 tape remain practically

Card 2/4

97910
AUTHORS:

Nazarov, S.Kh., Korzhukov, V.G., Pletnev, A.P., and Yashchenko,
O.N.

TITLE:

The type 6-35 magnetic tape

PERIODICAL: Tekhnika kino i televideniya, no. 10, 1961, 7-11

TEXT: The authors describe the manufacturing process of the type 6-35 magnetic tape and compare its operating characteristics with those of other types of tape. Unlike other Soviet-produced tapes, this perforated 35-mm tape has a ferromagnetic coating made of γ -ferric oxide without an admixture of cobalt compounds. It was jointly developed in 1960 by the Shostkinskiy filial NIKFI (Shostka Branch of the NIKFI) and the VMAIZ. The film for the tape is made of vinylidene chloride and the VMAIZ. The film for the tape is made of CBX-40 (SYKh-40) synthetic resin, which is a copolymer of vinyl chloride and vinylidene chloride, with aromatic hydrocarbons and ketones as solvents. The film is then coated with a ferromagnetic suspension on a special MP-400 (MP-400) machine designed and built in 1960 by the Shostka Chemical Plant.

Card 1/13

3/18/76
2876
D053/D113
000/010/001/001

PLETNEV, A. A.

PLETNEV, A. A. - inzh i, GALITSKIY, B. M. - inzh.

Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii i mekhanizatsii
stroitel'stva (VNIOMS)

Razrabotka sposobov mekhanizirovannogo bezotkhodnogo gasheniya izvesti

Page 104

SO: Collection of Annotations of Scientific Research Work on Construction, completed
in 1950, Moscow, 1951

PLETNEV, A., inzh.; IOFFE, A., starshiy nauchnyy sotrudnik

Investigating binding and wall materials from the Nal'chik volcanic ashes. Sbor. nauch. soob. NII sel'stroia no. 2:78-87 '60.
(MIRA 15:5)
(Nal'chik region--Volcanic ash, tuff, etc.)
(Construction materials)



1176T56

PLETNEV, PROF

USSR/Medicine - Nerves, Optic
Medicine - Nervous System

May/Jun 1948

"Review of 'Chief Forms of Variations in the Optic
Nerve,' by Academician M. I. Averbakh," Prof Pletnev,
2 p

"Vest Oftalmol" Vol XXVII, No 3

This monograph published in 1946 is valuable addition
to medical bibliography. It is poorly organized,
however, and the arrangement of diagrams is incon-
sistent with the text.

7675

FIDB

PLETNER, Yury Viktorovich; FLIGEL'MAN, S.R.

[Father of Russian chemistry] Dedushka russkoi khimii.
Kalinin, Kalininskoe bol.knizhnoe izd-vo, 1959. 45 p.
(MIRA 15:8)
(Voskresenskii, Aleksandr Abramovich, 1808-1880)

2

BYKOVA, Ye.I. (gorod Kalinin); PLETHNER, Yu.V. (gorod Kalinin)

Use of dry ice during lessons of chemistry. Khim.v shkole 10 no.2:
45-46 Mr-Ap '55. (MLRA 8:7)
(Dry Ice)

PLETNER, Yu. V.

BYKOVA, Ye. I.; PLETNER, Yu.V. (Kalinin)

Excursion to a silicate-brick plant. Khim.v shkole 9 no.5:41-44
(MIRA 7:9)

S-O '54.
(Bricks) (School excursions)

PLETNER, Yu.V.(Kalinin)

Teaching methods of solving chemical calculation problems. Khim. v
shkole 12 no.1:35-44 Ja-F '57.
(Chemistry--Problems, exercises, etc.)
(MLRA 10:3)

1. BORODIN, A. I., KALINOVSKIY, V. S., BLATNIK, YU. V., NIUKHINA, T. V.
2. 351F (600)
4. Chemistry - Study and Teaching
7. Home-made visual aids for chemistry, Khim. v shkole, no. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200002-6

PLETNER, Yu.V.

"Chemistry laboratory of the secondary school." L.A.Dubynin. Re-reviewed by IU.V.Pletner. Khim. v shkole 11 no.1:73-74 Ja-F '56.
(Chemical Laboratories) (Dubynin, L.A.) (MLRA 9:2)

PLETHIN, Yu. V.

Chemistry - Study and Teaching

Practices of a methodological association. Khim. v. chkele, no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1958. Unclassified.

PLETNER, Yu.V. (Kalinin)

Qualitative chemistry problems in the secondary school course. Khim.
v shkole. no.2:25-34 Mr-Ap '58. (MIRA 11:3)
(Chemistry, Analytic--Qualitative)

PILETNER, Yu. V.
PILETNER, Yu. V. (Kalinin)

Experimental proof of oxygen being heavier than air. Khim.v
shkole 12 no.6:52 N^o. 157 (MIRA 10:12)
(Oxygen)

P. I. Pletner, Yu. V.

PLETNER, Yu.V. (Kalinin)

Experiments in the chemistry of metals ("Techniques and methods
of chemical experiments on the subject 'metals' in highschools")
by E.A.Agakhanians and V.A.Agakhanians. Reviewed by IU.V.Pletner.
Khim.v shkole 12 no.5:78-79 S-0 '57. (MIRA 10:10)
(Chemistry--Experiments) (Metals) (Agakhanians, E.A.)
(Agakhanians, V.A.)

SHELINSKIY, G.I., kand.ped.nauk(Leningrad); KROTKOV, V.V.; PLETNER,
Yu.V.

Useful, but poorly written book ("Chemistry made interesting"
by I.I.Zaikovskii. Reviewed by G.I.Shelinskii, V.V.Krotkov,
IU.V.Pletner). Khim.v shkole 14 no.5:84-87 S-O '59.
(MIRA 12:12)

1. Mariyskiy pedagogicheskiy institut, g.Yoshkar-Ola
(for Krotkov). 2. Kalininckiy pedagogicheskiy institut
(for Pletner).

(Chemistry--Study and teaching)
(Zaikovskii, I.I.)

PLETNER, Yu.V.

Aleksandr Abramovich Veskresenskii. Khim.v shkole 14 no.5:
(MIRA 12:12)
19-24 S-O '59.

1. Kalininskiy pedagogicheskiy institut.
(Veskresenskii, Aleksandr Abramovich, 1808-1880)

BYKOVA, Ye.I.; PLETHNIK, Yu.V. (G. Kalinin)

Optional chemistry course. Khim. v shkole 14 no.1:80-82 Ja-F '59.
(MIP 12:2)

(Chemistry--Study and teaching)

PLETNER, Yu.

"Pedagogical lectures" of chemistry teachers in Kalinin Province.
Khim. v shkole 13 no.4:80 Jl-Ag '58. (MIRA 11:6)
(Kalinin Province--Chemistry--Study and teaching)

PLETNER, Yu. V.

USSR/General Problems.

A-

Abs Jour : Ref Zhur - Khimiya, No 10, 1957, 33416

Author : Pletner, Yu.V.

Inst :

Title : To the Methodic of Instruction of Solving Calculation
Problems in Chemistry.

Orig Pub : Khimiya v Shkole, 1957, No 1, 35-44.

Abstract : No abstract.

Card 1/1

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200002-6

PLETKER, N. Kh.: Master Med Sci (diss) -- "Experience in using antibacterial
preparations combined with tuberculin in experimental tuberculosis and in
patients with certain forms of tuberculosis of the lungs and lymphatic nodes".
Moscow, 1958. 15 pp (Min Health USSR, Central Inst for the Advanced Training of
Physicians), 200 copies (KL, No 3, 1959, 139)

PLETNER, N. Kh.; LIBANSON, V.S.; SUMBATOV, G.A.

Some manifestations of hyperfunction of the pituitary-adrenal system in tuberculosis patients following antibacterial therapy.
(MIRA 16:9)
Probl. tub. 41 no. 3:79-80'63.

1. Iz kafery tuberkuleza (zav. - prof. A.Ye. Rabukhin) TSen-
tral'nogo instituta usovershenstvovaniya vrachey i 3-y gorod-
skoy klinicheskoy tuberkuleznoy bol'nitsy "Zakhar'ino (glavnyy
vrach V.P. Petrik, nauchnyy rukovoditel' prof. F.I. Levitin),
Moskva.

(PITUITARY GLAND--DISEASES)
(ADRENAL CORTEX--DISEASES) (TUBERCULOSIS)
(CHEMOTHERAPY)

PLETNER, N.Kh.; NEZLIN, S.Ye. (Moskva)

Work capacity of patients with pulmonary tuberculosis.
Klin. med. 40 no.12:42-48 D '62. (MIRA 17:2)

1. Iz TSentral'nogo instituta ekspertizy trudosposobnosti i organizatsii truda invalidov (dir. - prof. D.I. Gritskevich) Ministerstva sotsial'nogo obespecheniya RSFSR.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200002-6

SAK-SHAK, B.A., kand. tekhn. nauk; FISHELEVA, L.S.; PLETNER, D.Yu.

Area of economic expediency for the use of multiple machining.
Mashinostroitel' no.10:37-38 O '65. (MIRA 18:10)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200002-6

PLETMINTSEVA, T.

Oak

"Effect of intensive tree felling on the quality of young oak trees. Les khoz. 5, No. (43)
1952

9. Monthly List of Russian Accessions, Library of Congress, August 1952 Unclassified.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200002-6

PIETMINTSEV, V. (g. Staline)

From shavings and sawdust. Prom. koop. 12 no. 7:29-30 Jl '52.
(MIRA 11:8)

1. Glavnnyy inzhener tresta "Stalinstroykeramika."
(Wood waste)

PLETMINTSEV, V.; SIDORENKOVA, I.

Electrothermal stressing of high-strength wire. Bud.mat.i
konstr. 2 no.1:18-21 F '60. (MIRA 13:6)

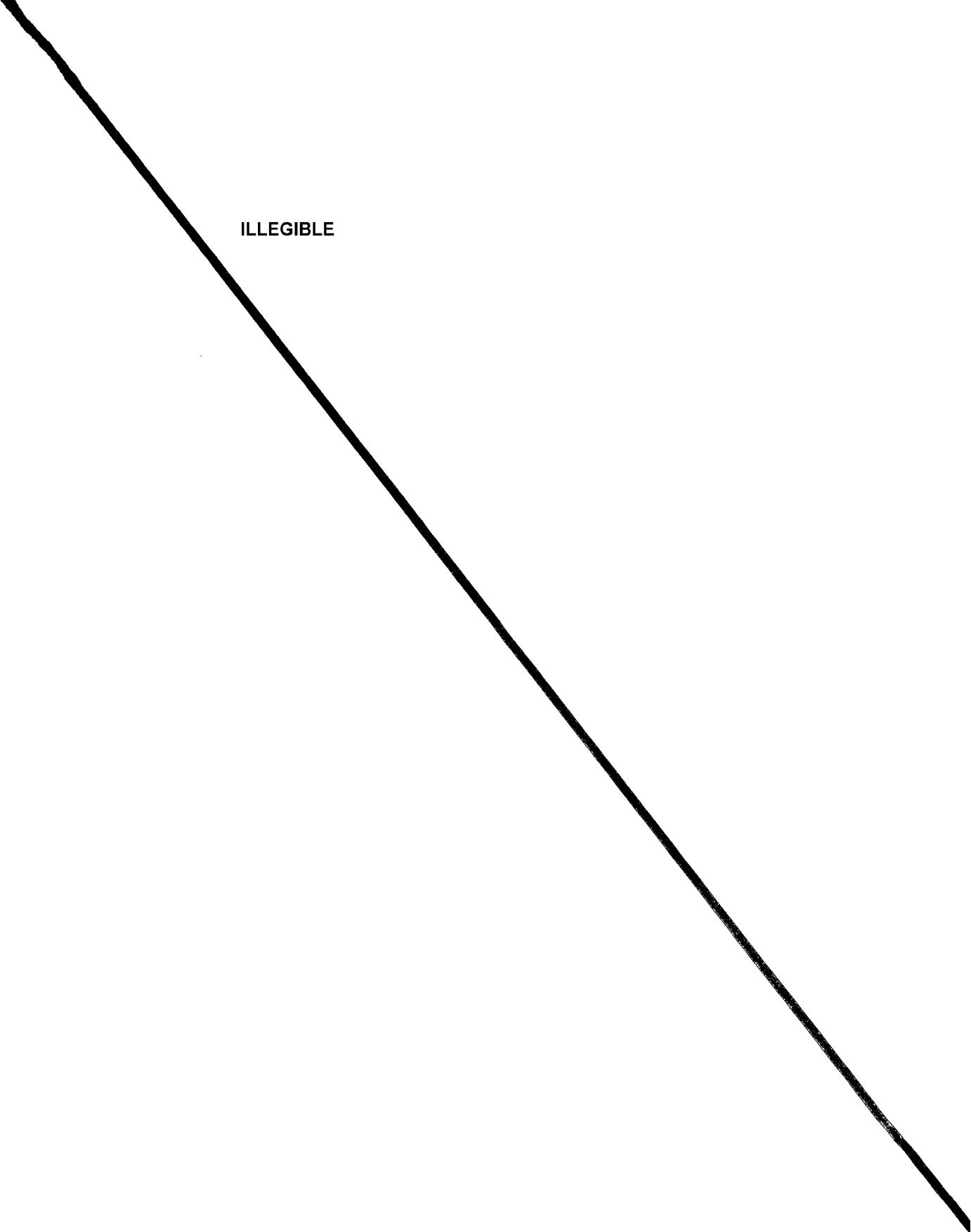
1. Nachal'nik sektora stroitel'noy industriji Dinetskogo
nauchno-issledovatel'skogo instituta nadshakhtnogo stroitel'-
stva (for Pletmintsev). 2. Starshiy inzhener sektora
stroyindustrii Donetskogo nauchno-issledovatel'skogo instituta
nadshakhtnogo stroitel'stva (for Sidorenkova).
(Electric heating) (Prestressed concrete)

AL'TSHULER, N.S.; LITOVCHENKO, O.V.; YUKELIS, I.I.; DUBOVSKOY, P.A.
PLETITSYNA, T.G.; BAGNOVA, M.D.; KOZEL'SKAYA, I.A.

Dynamics of tuberculosis of the skin in children in 1921-1954.
Vest.derm.i ven. 33 no.6823-29 N-D '59. (MIRA 13812)
(SKIN-TUBERCULOSIS)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200002-6

ILLEGIBLE



S/137/61/000/008/021/037
A060/A101

AUTHOR: Pleštil, Arnošt

TITLE: Apparatus for continuous induction heating in a hydrogen environment

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 8, 1961, 49, abstract 8 E 334
(Czechoslovak patent no. 94877, 15. 04. 60)

TEXT: A chamber filled with hydrogen and having inside an inductor for heating articles is proposed. The chamber is equipped with channels for input and output of the articles, and also with a connection for liquid-cooling of the channel. Due to the fact that the input and output ends of the channels are below the level of the lowest point of the inside space of the chamber, the H₂ inside the chamber and the channels is not expelled by the air entering with the parts and thus effectively protects the parts from oxidation. In this connection the H₂ expenditure is minimal (only used up in the reduction of oxides formed on the articles), and a pressure of 0.01 kg/cm² is sufficient for replenishing it.

Ye. Greyl¹

[Abstracter's note: Complete translation]

Card 1/1

PISTIKAPIĆ, Živoje, Inz.

Lipovljani, a new petroleum and gas field in the Save River depression.
Nafta Jug 15 no.6; 173-132 to 164.

1. Naftaplin Enterprise, Zagreb.

PLETIKAPIC, Zivko

Composition of the Sava River depression in the area between the Moslavina and Zrinska Gora Mountains; with 3 illustrations in the enclosure. Geol vjes Hrv 13:121-121 '59 (published '60).

(EEAI 10:4)

1. "Naftaplin," Zagreb, Kuniciceva 5.
(Croatia--Geology)

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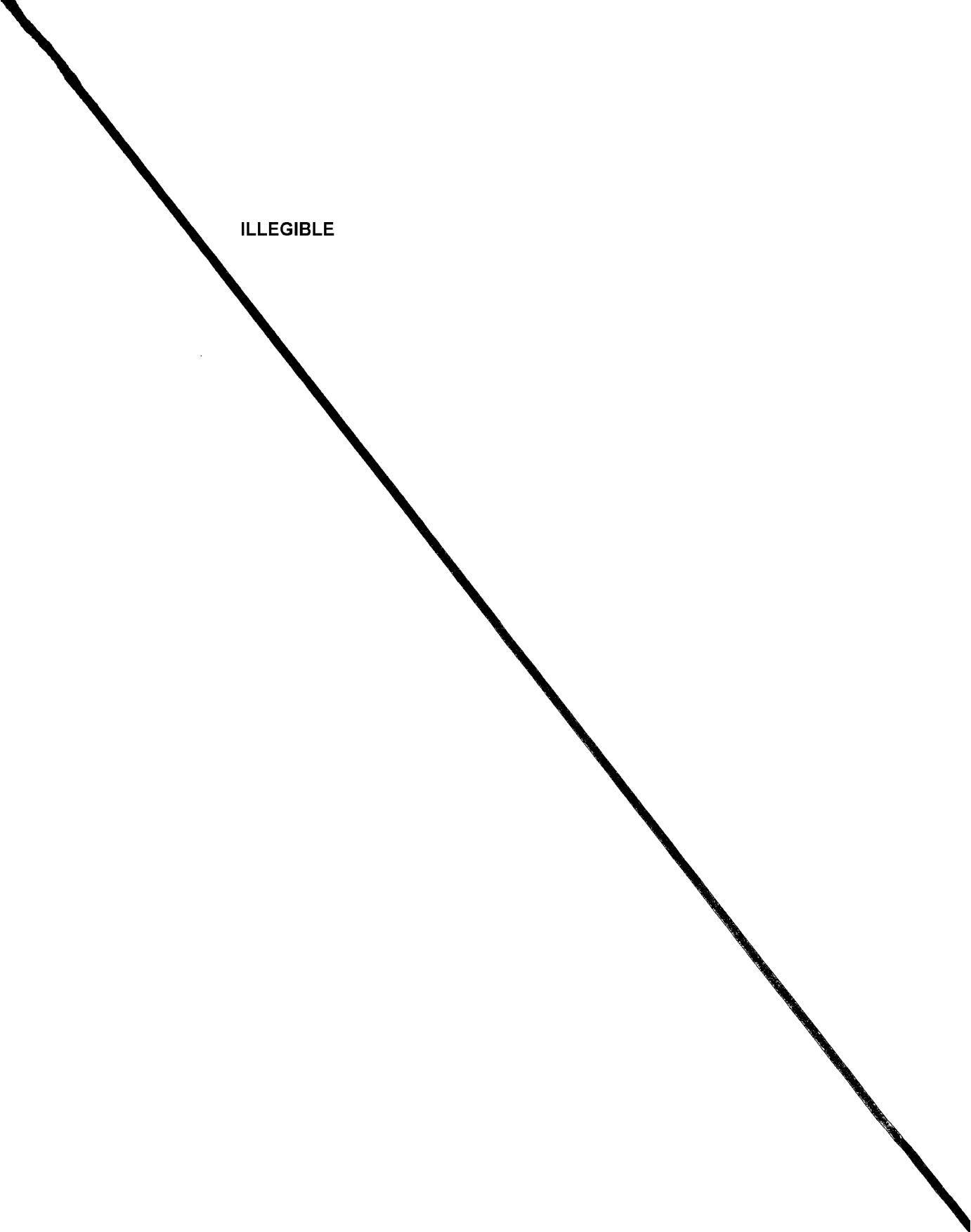
PLETIKAPIC, Zivko, inz.

Ferdinandovac, a new oil and gas field in the Drava River Valley.
Nafta Jug 13 no.6:115-120 Je '62.

1. Naftaplin, Zagreb.

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ILLEGIBLE



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PLETIKAPIC, Zivko, inz.

Evaluation of the Lipovljani oil and gas deposits. Nafta Jug
14 no.1:4-16 Ja '63.

1. Institut "Naftaplina", Zagreb.

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21 May 1968

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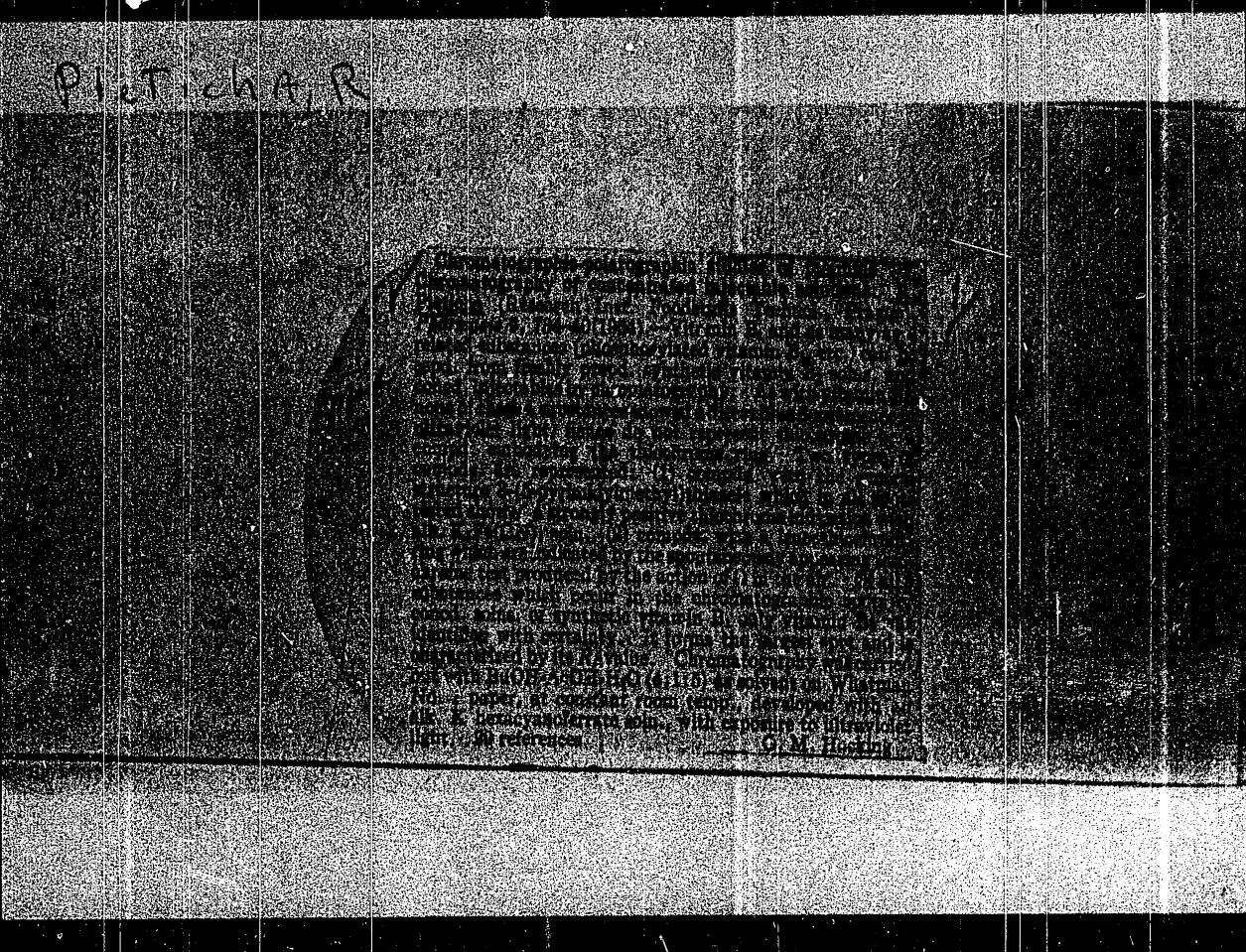
Introduction
In previous work in plant ash, R. Proctor,
G. M. Hooking and J. A. H. van der Veen,
described a method for determining the
concentration of boron in plant ash by atomic
absorption spectrometry. The electrodes
are heated by passing them in a flame to 100°. Then approxi-
mately 0.1 g. of plant ash is added to the C with a
Pt loop. An arc of 4 cm. diameter spark is used as an
excitation source. Photometric measurements are carried out by
using the short wavelength spectral line at 2424.770 Å
and 2427.735 Å. A line (not too far from the B line),
suitable for Mn, is used as an internal standard. Conditions
for producing calibration spectrograms are given with 50% BC
and 5% FeO as a sample, with a mass of 0.001-0.007 g. In
the actual application to plant ash, 0.1 g. samples were
soaked with 1.5 ml. dilute HCl (1:3) and 0.2 ml. 3% NaO
solution. References:
G. M. Hooking

R.M.H.

PLATICA R.

✓ 1486. The use of chlorotriacetic acid (Complexone II) in the polarographic determination of trace elements in the ash of plants. R. Pleticha (Forsch. Inst. f. Phanzenprodukt, Prague-Kravne, Czechoslovakia). *Pharmazie* 1957, 18 (8), 131-135.—A soln. of chlorotriacetic acid (0.4 g) in 17.5% aq. NH₃ (10 ml) is used as supporting electrolyte for the polarographic determination of Cu, Zn and Fe present as trace elements in plant ash. The only preliminary treatment required is the removal of selenite. The method of standard additions is used for the calculation of concn from wave-heights. In suitable cases, Pb, Sb, Ti, Cd and Bi can also be determined. A. R. ROGERS

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PLETINHA, R.

USSR

Polarographic determination of nitrates and nitrites in meat salt and brine for pickling meat. R. Pletikhna and E. Kralizhova. *J. Anal. Chem. U.S.S.R.* 9, 107-13 (1954) (Engl. translation).—See C.A. 49, 4000a. H. L. H.

Plenum R

USSR

Polarographic determination of nitrogen and nitrites in the salt and brine for pickling meat. V. S. Klimov and E. Krasnikova (Research Inst. Food Technology, Moscow, Zelenograd, Russia) - Nitrites are determined in a 10% w/v uranyl acetate. Nitrates in rapid pickling brines are determined in a 10% w/v uranyl acetate. To date, NO_2^- in meat pickling salt solution, containing $10^{-3} M \text{KCl}$, $10^{-3} M \text{HCl}$, and $2 \times 10^{-4} M \text{UOAc}_2$, is used. In this solution added a similar amount of KNO_2 , to add $10^{-3} M \text{KNO}_2$, and a polarographic calibration curve is obtained at ~ 1 v. Then to the auxiliary electrolyte and a 1% soln. of the analyzed salt is added and a polarographic curve is obtained which is compared with the calibration curve. To date, NO_2^- in a sample of "Pragama" (rapid pickling salt) 0 ml. of 10% AcOH is placed in the cell and N is passed through it. To it is added 1 ml. of 10% soln. of "Pragama" freed of O; the mixt. is carefully stirred with a glass rod, and a polarographic curve is produced starting at ~ 0.6 v. Next 0.1 ml. of $10^{-3} M \text{NaNO}_2$ (standardized) freed of O is added, and a new curve is obtained for comparison. In analyzing red pickling brines, i.e., brines which were in use, proteins derived from meat are paid with Ba(OH)₂. In analyzing red brines for NO_2^- , the protein is paid by the AcOH used in analysis. After the NO_2^- is dead, an inert gas is passed through the soln. to remove N_2O_4 , then UOAc_2 soln. is added, and they are analyzed for NO_2^- .

M. Houska

Piotrkow, R.

Polarographic determination of nitrogen and nitrates in salt and meat-pickling salt. R. Piotrkow and E. Krzakova (Zh. anal. Khim. SSSR, 1954, 8, 368-372). Nitrates and nitrites in pickling salts not containing sugars and proteins are determined by Kolthoff's polarographic method but with uranyl acetate in place of the chlorides. In presence of sugars, nitrates are determined in acetic acid solution, without addition of uranyl acetate, from the height of the wave corresponding to reduction of oxides of nitrogen which begins at -0.8 v. with reference to the saturated calomel electrode. In presence of proteins a preliminary separation with alcohol is necessary before a nitrate determination by the uranyl method. The use of alcohol is unnecessary in the determination of nitrates by the acetic acid method.

G. S. SMITH

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001341200002-6

PLETICKA, R.

Oscillographic [and] polarographic studies on vitamin E₁
in alkaline solution. R. Pleticka (Polarographic Central
Inst., Prague). *Pharmazie* 92, 395-402, 495-9
(1953).—See C.A. 48, 3816g. Nathan Levin

PLETICHA, ROMAN

Chemical Abst.
Vol. 48
Apr. 10, 1954
Electrochemistry

Oscillographic-polarographic study of vitamin B₁ in alkaline solution. Roman Pleticha (Výzk. ústav potravinářské technol., Praha, Czech.). Chem. Listy 47, 806-16 (1953).—The depolarizing effects of thiamin in alk. solns. show that its behavior is similar to that of other compds. contg. —SH, —S—S—, and ...S— groups. The polarographic anodic wave at $\pi_{0.4}$ -0.2 v. is of adsorption character; the no. of moles adsorbed on unit surface of Hg is evaluated from the limiting current. By investigation of the characteristic anodic wave at $\pi_{0.4}$ -0.41 v., the depolarization effect is verified based on the reaction of the SH group with the anodically formed Hg^{++} ions giving an insol. salt. On the surface of the cathodically polarized Hg drop this compd. remains insol. in dil. alk. soln. and causes the reversible cathodic wave. In stronger alk. soln. another, more protracted, cathodic wave at -1 v. is observed; this is probably due to the slow, irreversible but direct reduction of the disulfide form of thiamin to the thiol form. At higher temp., a new third anodic wave at $\pi_{0.4}$ -0.74 v. is reported.

E. Erdős

PLETICHA, Roman

Chemical Abst.
Vol. 48
Apr. 10, 1954
Electrochemistry

1
Oscillographic-polarographic study of diacet^l. Roman Pleticha (Národní ústav Polárograf., Prague, Czech.). Chem. Listy 47, 43-8 (1953).—The oscillographic depolarization of diacetyl solns. was investigated; the $i-t$ curves had the shape of $1/4$ parabolas; by means of a dropping and streaming Hg electrodes, the influences on the curves $\pi - t$, $dV/dt = f(t)$, and $dV/dt = F(V)$ of pH, temp., deformable ions, and capacity depolarizers were studied. The reduction of diacetyl was irreversible. It was concluded that the reduction of free mols. of diacetyl took place with simultaneous reception of 2 electrons; the probable reduction product was the unstable but oscillographically active 2-butene-2,3-diol which was deactivated to acetoin. The reduction of another form of diacetyl (which was reduced at more neg. potentials) was discussed.

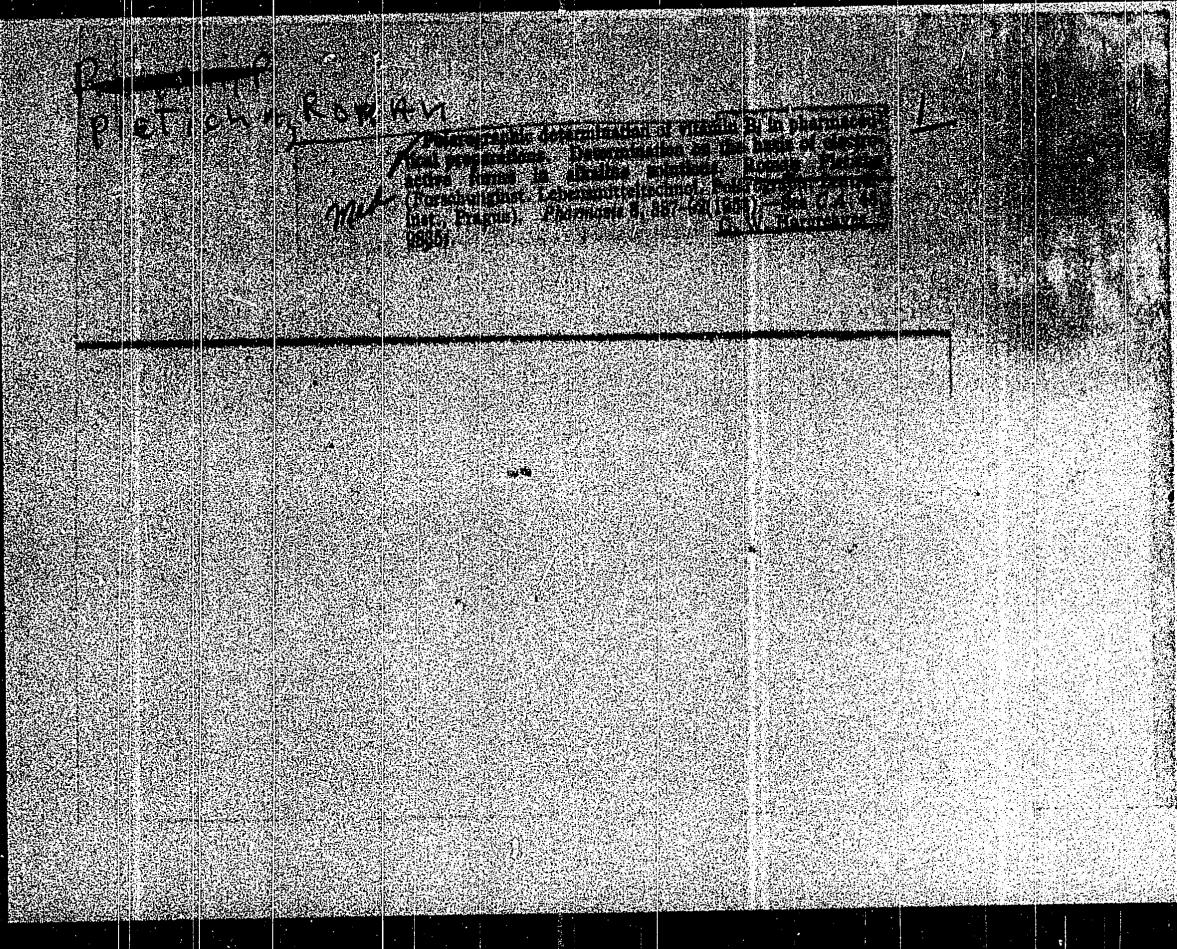
E. Erdö

POLAROGRAPHY

Detection of potassium bisulfite(III) adduct with several vitamins and antibiotics. Intra-polarographic determination of sulfanilic acid. (Czech. Acad. of Prague). *Pharmazie*, 30, 611 (1975). Several antibiotics and antibiotics were tested from 10⁻⁴ to 10⁻² molar with the help of the complex anion Bil^{2-} ; the conditions for polarographic analytical evaluation of this reaction were determined. One such method was indirect titration of Bil^{2-} with 1% Na-tartrate of thiamine-HCl (titration by 200 μl K₂ and registration of the anodic polarographic waves of one an. Since Bil^{2-} -K₂ reacts with many different ionic compounds, the proposed method may sometimes have to be modified. Because the reaction is not specific, only pure substances may be used, thus in medicine only the ampoule preps. (e.g., concd. injectables but not tablets, in which starch or sugar admixtures interfere).

G. M. Hocking

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PLETICHA, R.

CZECH

703. Polarographic determination of nitrites and nitrates in meat-pickling solutions. R. Pleticha and E. Klikova (Prumysl Potravin, 1950, 4 (9), 583-593; Referatnyj Zh., Khim., 1954, Abstr. No.

16,819).—For the determination of nitrate, the method of Kolthoff *et al.* (*J. Amer. Chem. Soc.*, 1944, 66, 1782) is used: A soln. containing 1 per cent. of the sample together with KCl (0.1 M), HCl (0.01 M) and uranyl acetate (0.0002 M) is polarographed at -1 V. A soln. of KNO_3 (0.001 M) is used to prepare a calibration curve. For the determination of nitrite, 9 ml of 10 per cent. acetic acid soln. are placed in the cell and nitrogen is blown through. One ml of a 10 per cent. soln. of the sample, freed from atmospheric oxygen, is then added; the soln. is mixed and then polarographed at -0.6 V, the addition method being used. When nitrate is being determined in spent soln., proteins must first be precipitated with ethanol and then removed by filtration. In the nitrite determination on spent soln., the proteins are ptd. by acetic acid and the use of ethanol is unnecessary.

E. Hayes

PLETICHA, R.

Polarographic determination of vitamin B₁ in pharmaceuticals. Determination of the basis of electroactive forms in alkaline medium. R. Pleticha (Czech. Acad. Sci., Prague), Českoslov. farm. 2, 149-53 (1953).—Except for the thiol form of thiamine, resulting at pH > 9 and giving a characteristic anode wave at -0.4 v., various other electroactive forms appeared in alk. solns. In 0.1N NaOH it was observed that: (1) There was an unspecific anodic adsorption forewave, $\pi/2 = -0.2$ v., on the anodic wave of the —S—S— form of thiamine. (2) There was a cathodic reduction wave of the —S—S— form of thiamine. (3) The anodic wave shifted to the cathodic side after longer standing of alk. solns. of thiamine. The new wave was produced probably by the reduction of Hg by the insol. deposit on the dropping Hg electrode. (4) A polarographically inactive —S— form (thiocchrome) resulted at pH over 10, which decompd. to —SH form in 0.1N NaOH after about 10 min., in 1.25N NaOH after 30 min. In 1.25N NaOH only an anodic wave at -0.4 v. and a cathodic wave at -1 v. resulted. The height of the anodic wave depended linearly on the thiamine concn. ($2.17 \times 10^{-4} - 4 \times 10^{-4} M$), the cathodic wave not varying considerably. In analytical extr., the total anodic and cathodic current increase in the potential range from -0.2 v. to -1.2 v. was measured. The accuracy of the method was $\pm 3\%$. Previous bubbling with N₂ to decolorize was necessary. D. Hubíková.

PM
11-23-54

Pletikha, R.

Polarographic determination of vitamin B₁ in pharmaceuticals. Determination on the basis of electroactive forms in alkaline medium. R. Pletikha (Czech. Acad. Sci., Prague). Českoslov. Farm. 27: 119-133 (1973). Except for the thiol form of thiamine, resulting at pH > 9 and giving a characteristic anodic wave at -0.4 v., various other electroactive forms appeared in alk. soln. In 0.1N NaOH it was observed that: (1) There was an unspecific anodic adsorption forewave, $\pi/2 \approx -0.2$ v., on the anodic wave of the thiol form. (2) There was a cathodic reduction wave of the -S-S- form of thiamine. (3) The anodic wave shifted to the cathodic side after longer standing of alk. solns. of thiamine. The new wave was produced probably by the reduction of Hg of the insol. deposit on the dropping Hg electrode. (4) A polarographically inactive -S- form (thiochrome) resulted at pH over 10, which decompd. to -SH form in 0.1N NaOH after about 10 min., in 1.25N NaOH after 30 min. In 1.25N NaOH only an anodic wave at -0.4 v. and a cathodic wave at -1 v. resulted. The height of the anodic wave depended linearly on the thiamine concn. ($2.17 \times 10^{-4} - 4 \times 10^{-4} M$), the cathodic wave not varying considerably. In analytical estn., the total anodic and cathodic current increase in the potential range from -0.2 v. to -1.2 v. was measured. The accuracy of the method was $\pm 3\%$. Previous bubbling with N₂ to decolorize was necessary. D. Hubíková

2k(2-4)

PHASE I BOOK EXPLOITATION CZECH, 2433
International Polarographic Congress. 1st, Prague, 1951

Sborník I. Mezinárodní polarografického sjezdu, 1st, Prague, 1951

Referaty Prezidenta Mezinárodního polarografického sjezdu, Díl 1: Biologické

Read at the Congress na sjezdu, Praha, Průvodce výsledky... Vol. 3: Biochimie
774 p. 2,000 copies. Printed.

Responsible Ed.: Jiří Kotyra, Doctor, Doctor; Tech. Ed.: Oldřich Danka

Milan Sklenák, Doctor, Doctor; Chief Ed. of Publishing House:
PURPOSE: The book is intended for chemists, chemical engineers,

COVERAGE: The book is a collection of reviews and original papers read at the International Polarographic Congress and original papers in biochemistry, medicine, and industry. In addition, theoretical principles in the sections: Refraction, and Industrial Chemistry and Technology, are either German or English. The Congress was held at the Congress Center, Russian Islands, presented. In the English translation, Russian and English versions have been published. Original papers read at the Congress, have not been published in Russian, German, and English which follow. Scientific papers published in Volume 1 are presented. The Congress, Professor Witold Kita, President of the Polish Academy of Sciences, Warsaw, Doctor Janusz Kowalewski, Head of the Department of Chemistry, Institute of Technology, Warsaw, Poland, President of the Congress, Professor Jaromír Matoušek, Minister of Education, and Professor János Horváth, Chairman of the Hungarian Academy of Sciences, Budapest, Hungary. Development. References follow each paper.

Danková, J. Polarographic Study of Glucose by Alkalies [Russian Translation]

Zumán, P. Reactions of Carbonyl Compounds with Primary Amines [German Translation] 517

Sutty, K. Polarographic Determination of Cyanide, Cyanoacrylate, and Ruthenium Dioxide [Russian Translation] 520

Pleščinská, B. Some Compounds of Amino Acids with Metals [Russian Translation] 525

Bošáč, J., and J. Žitný. Polarographic Determination of Phosphorus in Water and Oils [Russian Translation] 534

Dobrovský, R. Use of Polarography for the Determination of Pentobarbital in Collodion [Russian Translation] 539

Card 6/14 Pietrucha, R. Determination of Diacetyl [Russian Translation] 542

Card 6/15 Pietrucha, R. Determination of Diacetyl [Russian Translation] 546

S66

S69

S72

CA

Analytical Chemistry
1

Polarographic study of biacetyl I. Roman Pleticha a
(Central Polarographic Inst., Prague, Czech.) Chem.
Listy 46, 69-72 (1952). Ac forms 1 wave in an acidic medi-
um and 2 waves at pH 6.9-9.4. The half-wave potential of
the 1st more pow. wave depends on the compn. of the buffer
and, linearly, on the pH, whereas that of the 2nd wave is
practically independent of pH. Establishing the equil-
between the 2 forms of Ac is reducible at different potentials
is supposed to be acid-base catalyzed. Dependence of the
catalysis on pH was followed in the Sorenson phosphate
buffer, Walpole acetate buffer, Clark-Lubs acidic and alk.
buffers, and the Kolthoff phosphate-borate buffer. Max
catalytic effect was observed in the 1st (pH 8.4) and min. in
the last (pH 7.6) of the buffers. In acidic medium the
limiting current of the 1st wave is only $\frac{1}{3}$ to $\frac{1}{4}$ of the value
expected for a 2-electron reduction. When 2 waves are
formed, their total limit current corresponds to a 2-electron
reduction. The heights of the waves are directly propor-
tional to the concns. of Ac and the ratio of their limiting
currents do not change with changes of concns. in the same
buffer. M. Hudlický

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Analyses

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Polarographic Examination of Some Amino-Acid Complexes
Formed with Ferrous Metals. R. Pleticha. *Chem. Listy.*
1951, **45**, May, 185-189. (In Czech). A description is
given of a polarographic and oscillographic study of com-
plexes of amino acids formed with ferrous metals, and of
their stability. P. F.